



Clearinghouse
Division



Industrial
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COMMISSION

February 3, 1997

EX PARTE OR LATE FILED

*Michele Farquhar, Esq.
Chief, Wireless Telecommunications Bureau
Federal Communications Commission
2025 M Street, N.W., Room 5002
Washington, D.C. 20554*

Re: ITA Clearinghouse Report

Dear Ms. Farquhar:

Pursuant to instructions contained within the FCC's Report and Order in WT Docket 95-157, the Industrial Telecommunications Association, Inc. (ITA) herewith submits its first semi-annual report regarding operation of ITA's Microwave Relocation Cost-Sharing Clearinghouse Division.

Should you have any questions, or require further information, please do not hesitate to contact me.

Sincerely,

Cynthia T. Chappell
Executive Vice President and COO

Enclosure

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Semi-Annual Report
Regarding Operation of the
Microwave Relocation Cost-Sharing Clearinghouse
[WT Docket No. 95-157]

Filed by:

Industrial Telecommunications Association, Inc.
1110 N. Glebe Road, Suite 500
Arlington, Virginia 22201
(703) 528-5115

I. Organizational

ITA formed a Clearinghouse Division (CHD) within its organizational structure to conduct the clearinghouse activities. The Clearinghouse Division is staffed by professionals dedicated to the project and supported with equipment and associated resources to perform the activities efficiently and at minimum expense. ITA has sub-contracted with Moffet, Larson & Johnson, Inc.'s Information Systems Division who provided their unique technical expertise for purposes of product and software development.

The staff of ITA's Clearinghouse Division possesses the requisite knowledge of the financial and technical aspects of PCS system deployment and microwave relocation. ITA's staff is fully conversant with all past and pending PCS regulatory and allocation decisions and equipped with a state-of-the-art management information system, PCS/microwave licensee records, and electronic information receipt/delivery resource capabilities to communicate efficiently with all participating entities.

The role of the clearinghouse is simply to serve as a facilitator in the microwave relocation cost-sharing process. The clearinghouse is not the process, nor should it be structured in a way that encumbers the recognition of prior Relocator reimbursement rights and Later Entrant reimbursement obligations. The clearinghouse functions in the background of the PCS industry as a ready industry transaction and analytical resource.

II. Operational

ITA's technical approach to the required clearinghouse functions fully conform with the procedures identified by the FCC within its *Report and Order* in WT Docket No. 95-157. The process commences with a Prior Relocator's registration when relevant relocation information is gathered; proceeds through the Later Entrant notification requirement, which incorporates application of the Proximity Threshold Test; and, essentially, concludes with the clearinghouse notification of the reimbursement obligation. This process incorporates the application of reimbursement caps; the microwave relocation depreciation schedule; and recognizes other unique matters associated with unlicensed PCS operations, private settlement agreements and alternative payment options available to designated entities and UTAM, Inc. A variety of exhibits are presented that are already under development to ensure expedited clearinghouse commencement and proficient operations.

The determining relocation reimbursement obligation centers around the deployment of a PCS site that would affect the operational characteristics of the former or relocating microwave incumbent system. If a site is to be deployed that would prove to incur a reimbursement obligation following a PTT analysis, ITA notifies all affected PCS licensees of their reimbursement obligation. If no sites are deployed that would affect the microwave system, the microwave incumbent will receive reimbursement for actual relocation costs when PCS sites are deployed in the future.

The essential registration information gathered by ITA incorporates PCS Relocator administrative data, relocated microwave link technical data and associated financial relocation data, all of which are maintained within a fully automated and secure database located at ITA's Arlington, Virginia offices. A back-up database is maintained at all times at ITA's Gettysburg, Pennsylvania, offices for further security purposes.

Utilizing base station location information within a PCN, ITA determines whether the proposed PCS base station, to be operated at full commercial power, is located within a specifically designed rectangle produced through the application of a PTT evaluation. Other components that trigger a reimbursement obligation are determinations as to whether all or part of the relocated microwave link was initially co-channel with the licensed PCS band(s) of the subsequent PCS entity and whether the PCS Relocator has paid the relocation costs of the microwave incumbent.

PCS Relocators submit their clearinghouse registrations to ITA through a variety of methods. These include regular surface carriers and electronic means. Electronic access is available through E-mail at CHD@ITA-Relay.com.

III. ITA Clearinghouse Reports

To assist in the conduct of the clearinghouse function, ITA has developed a series of ten reports designed to provide critical relocation and cost-sharing data to PCS and microwave

licensees. As indicated below, there are six standard reports generated as a part of the PCN processing and relocater registration functions. In addition, there are four optional reports, designed to provide useful information that further details relevant relocation and reimbursement activities. Samples of all of these reports are provided as attachments to this document.

Standard Reports

1. **Microwave Relocation Cost-Sharing Schedule**

Description: This report provides a comprehensive reimbursement payment schedule, geared to the microwave station relocation date, for all PCS licensees that benefit from a prior relocation.

2. **PTT Report by Base Station**

Description: This report lists the location of PCS base stations and identifies, for each base station, each potentially interfering microwave links and the PCS blocks affected by the microwave links.

3. **PTT Report by Link**

Description: This report is the mirror image of the "PTT Report by Base Station." It identifies each microwave link that offers the potential to interfere with a specified PCS base station.

4. Cost-Sharing Obligation Report

Description: This report identifies the financial reimbursement due from a later entrant PCS licensee to each prior relocater that has previously entered into an agreement to relocate specific microwave links.

5. Cumulative Report of Cost-Sharing Obligations

Description: This report details the cumulative cost-sharing obligations incurred by a PCS licensee to prior relocators since the inception of the cost-sharing requirement.

6. Summary Report of Cost-Sharing Obligations

Description: This report summarizes the total obligations incurred by a later entrant PCS licensee to all prior relocators.

Optional Reports

1. PTT Rectangle Map

Description: This output depicts the PTT maps for a microwave link.

2. Proximity Threshold Evaluation Rectangle Report

Description: This report identifies each microwave station located within a specified Proximity Threshold Rectangle and specifies the PCS blocks in which there are potentially interfering PCS base stations.

3. Microwave Link Transaction Report (By Link)

This report details the reimbursement obligation for each later entrant PCS licensee that benefits from the prior relocation of a given link.

4. Microwave Link Transaction Report (By Market)

This report details the reimbursement obligation for each later entrant PCS licensee that benefits from the prior relocation of one or more links in a given MTA or BTA.
management controls.

IV. Activities To Date

A. Number of Links Relocated

To date, 183 relocated microwave links have been registered with ITA.

B. Amounts Paid to Relocate These Links

The total cost of the 183 relocated links is \$34,538,004. Taking into account the FCC-imposed caps on reimbursement, the adjusted or capped cost of the relocated links is \$28,758,340.

C. Number of PCNs

To date, there have been 5,676 PCNs filed with ITA.

D. Existing Fee Structure

<u>Activity/Service</u>	<u>Fees</u>
◆ PCS Relocator Registration	\$150/link (maximum \$2,000)
◆ PTTs (applies only to later entrants who elect to do a preliminary PTT)	\$250 plus \$15/base station (electronic) or \$25/base station (paper PCN)
◆ Dispute Resolution	\$500 plus time & materials/dispute

Consistent with the requirements imposed on the designated clearinghouses, ITA performs its clearinghouse function on a non-profit basis. In view of the fact that several relocation/reimbursement issues remain outstanding in WT Docket No. 95-157, we have not revised the projections presented in our proposal. However, we will provide detailed projections in our subsequent semi-annual report or upon request by the FCC.

V. Outstanding Issues

As reflected in correspondence submitted to the Wireless Telecommunications Bureau in November 1996, ITA believes that, in the interest of ensuring successful implementation of microwave relocation cost-sharing, it is necessary to make certain additional data elements available to later entrant PCS licensees.

The cost-sharing formula developed in WT Docket No. 95-157 provides a mechanism for assessing the dollar benefit to later entrants of the spectrum-clearing efforts undertaken by

a PCS licensee. In addition to the factors reflected in the cost-sharing formula, however, the value of the spectrum-clearing efforts to a later entrant will also depend on the decommission dates specified in the cost-sharing agreements for potentially interfering microwave stations.

To further improve the microwave system relocation process, we believe it is imperative that the following data additional data elements regarding an earlier relocation agreement be provided to affected later entrants: (1) the call signs for stations that a PCS licensee has agreed to relocate; (2) for each such station, the date on which the station will cease transmissions (the decommission date); (3) the date of the relocation agreement; (4) the name and telephone number of the appropriate contact person for the PCS licensee who is a party to the relocation agreement; and (5) the cost of relocating each link, up to the per-link cap of \$250,000 (\$400,000 if modification or construction of a new microwave tower is necessary to relocate a given link).

ITA believes that a later entrant PCS licensee engaged in efforts to relocate incumbent point-to-point microwave systems has an inherent right to the five data elements identified above, provided that the microwave links in question are located within the geographic area licensed to the later entrant and the licensed microwave frequencies are encompassed within the later entrant's assigned frequency block.

To facilitate later entrants' access to this essential information, each PCS licensee who enters into a microwave station relocation agreement should be required to submit documentation of the agreement to both of the Commission-designated cost-sharing clearinghouses, the

Industrial Telecommunications Association, Inc. (ITA) and the Personal Communications Industry Association (PCIA), within ten (10) days of the date on which the agreement is signed.

ITA would take all reasonable precautions to protect the integrity and confidentiality of relocation data. If a later entrant asks a clearinghouse for access to essential data, the clearinghouse must independently verify that the requested information pertains to links that would potentially interfere with the later entrant's PCS operations. Such information would be released only to those entities with a bona fide right to know.

* * * * *

Microwave Relocation Cost-sharing Schedule

Callsign WAW956 KDA26
 Latitude 35-03-08 35-04-02
 Longitude 118-10-23 118-23-02

Agreement Date 01/10/1997
 Reimbursement Type
PARTIAL REIMBURSEMENT

Licenseses

Month	2	3	4	5	6
01/10/1997	\$100,000.00	\$66,666.67	\$50,000.00	\$40,000.00	\$33,333.33
02/10/1997	\$99,166.67	\$66,111.11	\$49,583.33	\$39,666.67	\$33,055.56
03/10/1997	\$98,333.33	\$65,555.56	\$49,166.67	\$39,333.33	\$32,777.78
04/10/1997	\$97,500.00	\$65,000.00	\$48,750.00	\$39,000.00	\$32,500.00
05/10/1997	\$96,666.67	\$64,444.44	\$48,333.33	\$38,666.67	\$32,222.22
06/10/1997	\$95,833.33	\$63,888.89	\$47,916.67	\$38,333.33	\$31,944.44
07/10/1997	\$95,000.00	\$63,333.33	\$47,500.00	\$38,000.00	\$31,666.67
08/10/1997	\$94,166.67	\$62,777.78	\$47,083.33	\$37,666.67	\$31,388.89
09/10/1997	\$93,333.33	\$62,222.22	\$46,666.67	\$37,333.33	\$31,111.11
10/10/1997	\$92,500.00	\$61,666.67	\$46,250.00	\$37,000.00	\$30,833.33
11/10/1997	\$91,666.67	\$61,111.11	\$45,833.33	\$36,666.67	\$30,555.56
12/10/1997	\$90,833.33	\$60,555.56	\$45,416.67	\$36,333.33	\$30,277.78
01/10/1998	\$90,000.00	\$60,000.00	\$45,000.00	\$36,000.00	\$30,000.00
02/10/1998	\$89,166.67	\$59,444.44	\$44,583.33	\$35,666.67	\$29,722.22
03/10/1998	\$88,333.33	\$58,888.89	\$44,166.67	\$35,333.33	\$29,444.44
04/10/1998	\$87,500.00	\$58,333.33	\$43,750.00	\$35,000.00	\$29,166.67
05/10/1998	\$86,666.67	\$57,777.78	\$43,333.33	\$34,666.67	\$28,888.89
06/10/1998	\$85,833.33	\$57,222.22	\$42,916.67	\$34,333.33	\$28,611.11
07/10/1998	\$85,000.00	\$56,666.67	\$42,500.00	\$34,000.00	\$28,333.33
08/10/1998	\$84,166.67	\$56,111.11	\$42,083.33	\$33,666.67	\$28,055.56
09/10/1998	\$83,333.33	\$55,555.56	\$41,666.67	\$33,333.33	\$27,777.78
10/10/1998	\$82,500.00	\$55,000.00	\$41,250.00	\$33,000.00	\$27,500.00
11/10/1998	\$81,666.67	\$54,444.44	\$40,833.33	\$32,666.67	\$27,222.22
12/10/1998	\$80,833.33	\$53,888.89	\$40,416.67	\$32,333.33	\$26,944.44
01/10/1999	\$80,000.00	\$53,333.33	\$40,000.00	\$32,000.00	\$26,666.67
02/10/1999	\$79,166.67	\$52,777.78	\$39,583.33	\$31,666.67	\$26,388.89
03/10/1999	\$78,333.33	\$52,222.22	\$39,166.67	\$31,333.33	\$26,111.11
04/10/1999	\$77,500.00	\$51,666.67	\$38,750.00	\$31,000.00	\$25,833.33
05/10/1999	\$76,666.67	\$51,111.11	\$38,333.33	\$30,666.67	\$25,555.56
06/10/1999	\$75,833.33	\$50,555.56	\$37,916.67	\$30,333.33	\$25,277.78
07/10/1999	\$75,000.00	\$50,000.00	\$37,500.00	\$30,000.00	\$25,000.00
08/10/1999	\$74,166.67	\$49,444.44	\$37,083.33	\$29,666.67	\$24,722.22
09/10/1999	\$73,333.33	\$48,888.89	\$36,666.67	\$29,333.33	\$24,444.44
10/10/1999	\$72,500.00	\$48,333.33	\$36,250.00	\$29,000.00	\$24,166.67
11/10/1999	\$71,666.67	\$47,777.78	\$35,833.33	\$28,666.67	\$23,888.89
12/10/1999	\$70,833.33	\$47,222.22	\$35,416.67	\$28,333.33	\$23,611.11
01/10/2000	\$70,000.00	\$46,666.67	\$35,000.00	\$28,000.00	\$23,333.33
02/10/2000	\$69,166.67	\$46,111.11	\$34,583.33	\$27,666.67	\$23,055.56
03/10/2000	\$68,333.33	\$45,555.56	\$34,166.67	\$27,333.33	\$22,777.78
04/10/2000	\$67,500.00	\$45,000.00	\$33,750.00	\$27,000.00	\$22,500.00
05/10/2000	\$66,666.67	\$44,444.44	\$33,333.33	\$26,666.67	\$22,222.22
06/10/2000	\$65,833.33	\$43,888.89	\$32,916.67	\$26,333.33	\$21,944.44
07/10/2000	\$65,000.00	\$43,333.33	\$32,500.00	\$26,000.00	\$21,666.67
08/10/2000	\$64,166.67	\$42,777.78	\$32,083.33	\$25,666.67	\$21,388.89
09/10/2000	\$63,333.33	\$42,222.22	\$31,666.67	\$25,333.33	\$21,111.11
10/10/2000	\$62,500.00	\$41,666.67	\$31,250.00	\$25,000.00	\$20,833.33
11/10/2000	\$61,666.67	\$41,111.11	\$30,833.33	\$24,666.67	\$20,555.56
12/10/2000	\$60,833.33	\$40,555.56	\$30,416.67	\$24,333.33	\$20,277.78
01/10/2001	\$60,000.00	\$40,000.00	\$30,000.00	\$24,000.00	\$20,000.00

Microwave Relocation Cost-sharing Schedule

Callsign WAW956 KDA26
 Latitude 35-03-08 35-04-02
 Longitude 118-10-23 118-23-02

Agreement Date 01/10/1997
 Reimbursement Type
PARTIAL REIMBURSEMENT

Licensees

Month	2	3	4	5	6
02/10/2001	\$59,166.67	\$39,444.44	\$29,583.33	\$23,666.67	\$19,722.22
03/10/2001	\$58,333.33	\$38,888.89	\$29,166.67	\$23,333.33	\$19,444.44
04/10/2001	\$57,500.00	\$38,333.33	\$28,750.00	\$23,000.00	\$19,166.67
05/10/2001	\$56,666.67	\$37,777.78	\$28,333.33	\$22,666.67	\$18,888.89
06/10/2001	\$55,833.33	\$37,222.22	\$27,916.67	\$22,333.33	\$18,611.11
07/10/2001	\$55,000.00	\$36,666.67	\$27,500.00	\$22,000.00	\$18,333.33
08/10/2001	\$54,166.67	\$36,111.11	\$27,083.33	\$21,666.67	\$18,055.56
09/10/2001	\$53,333.33	\$35,555.56	\$26,666.67	\$21,333.33	\$17,777.78
10/10/2001	\$52,500.00	\$35,000.00	\$26,250.00	\$21,000.00	\$17,500.00
11/10/2001	\$51,666.67	\$34,444.44	\$25,833.33	\$20,666.67	\$17,222.22
12/10/2001	\$50,833.33	\$33,888.89	\$25,416.67	\$20,333.33	\$16,944.44
01/10/2002	\$50,000.00	\$33,333.33	\$25,000.00	\$20,000.00	\$16,666.67
02/10/2002	\$49,166.67	\$32,777.78	\$24,583.33	\$19,666.67	\$16,388.89
03/10/2002	\$48,333.33	\$32,222.22	\$24,166.67	\$19,333.33	\$16,111.11
04/10/2002	\$47,500.00	\$31,666.67	\$23,750.00	\$19,000.00	\$15,833.33
05/10/2002	\$46,666.67	\$31,111.11	\$23,333.33	\$18,666.67	\$15,555.56
06/10/2002	\$45,833.33	\$30,555.56	\$22,916.67	\$18,333.33	\$15,277.78
07/10/2002	\$45,000.00	\$30,000.00	\$22,500.00	\$18,000.00	\$15,000.00
08/10/2002	\$44,166.67	\$29,444.44	\$22,083.33	\$17,666.67	\$14,722.22
09/10/2002	\$43,333.33	\$28,888.89	\$21,666.67	\$17,333.33	\$14,444.44
10/10/2002	\$42,500.00	\$28,333.33	\$21,250.00	\$17,000.00	\$14,166.67
11/10/2002	\$41,666.67	\$27,777.78	\$20,833.33	\$16,666.67	\$13,888.89
12/10/2002	\$40,833.33	\$27,222.22	\$20,416.67	\$16,333.33	\$13,611.11
01/10/2003	\$40,000.00	\$26,666.67	\$20,000.00	\$16,000.00	\$13,333.33
02/10/2003	\$39,166.67	\$26,111.11	\$19,583.33	\$15,666.67	\$13,055.56
03/10/2003	\$38,333.33	\$25,555.56	\$19,166.67	\$15,333.33	\$12,777.78
04/10/2003	\$37,500.00	\$25,000.00	\$18,750.00	\$15,000.00	\$12,500.00
05/10/2003	\$36,666.67	\$24,444.44	\$18,333.33	\$14,666.67	\$12,222.22
06/10/2003	\$35,833.33	\$23,888.89	\$17,916.67	\$14,333.33	\$11,944.44
07/10/2003	\$35,000.00	\$23,333.33	\$17,500.00	\$14,000.00	\$11,666.67
08/10/2003	\$34,166.67	\$22,777.78	\$17,083.33	\$13,666.67	\$11,388.89
09/10/2003	\$33,333.33	\$22,222.22	\$16,666.67	\$13,333.33	\$11,111.11
10/10/2003	\$32,500.00	\$21,666.67	\$16,250.00	\$13,000.00	\$10,833.33
11/10/2003	\$31,666.67	\$21,111.11	\$15,833.33	\$12,666.67	\$10,555.56
12/10/2003	\$30,833.33	\$20,555.56	\$15,416.67	\$12,333.33	\$10,277.78
01/10/2004	\$30,000.00	\$20,000.00	\$15,000.00	\$12,000.00	\$10,000.00
02/10/2004	\$29,166.67	\$19,444.44	\$14,583.33	\$11,666.67	\$9,722.22
03/10/2004	\$28,333.33	\$18,888.89	\$14,166.67	\$11,333.33	\$9,444.44
04/10/2004	\$27,500.00	\$18,333.33	\$13,750.00	\$11,000.00	\$9,166.67
05/10/2004	\$26,666.67	\$17,777.78	\$13,333.33	\$10,666.67	\$8,888.89
06/10/2004	\$25,833.33	\$17,222.22	\$12,916.67	\$10,333.33	\$8,611.11
07/10/2004	\$25,000.00	\$16,666.67	\$12,500.00	\$10,000.00	\$8,333.33
08/10/2004	\$24,166.67	\$16,111.11	\$12,083.33	\$9,666.67	\$8,055.56
09/10/2004	\$23,333.33	\$15,555.56	\$11,666.67	\$9,333.33	\$7,777.78
10/10/2004	\$22,500.00	\$15,000.00	\$11,250.00	\$9,000.00	\$7,500.00
11/10/2004	\$21,666.67	\$14,444.44	\$10,833.33	\$8,666.67	\$7,222.22
12/10/2004	\$20,833.33	\$13,888.89	\$10,416.67	\$8,333.33	\$6,944.44
01/10/2005	\$20,000.00	\$13,333.33	\$10,000.00	\$8,000.00	\$6,666.67
02/10/2005	\$19,166.67	\$12,777.78	\$9,583.33	\$7,666.67	\$6,388.89

Microwave Relocation Cost-sharing Schedule

Callsign WAW956
 Latitude 35-03-08
 Longitude 118-10-23

KDA26
 35-04-02
 118-23-02

Agreement Date 01/10/1997
 Reimbursement Type
PARTIAL REIMBURSEMENT

Licensees

Month	2	3	4	5	6
03/10/2005	\$18,333.33	\$12,222.22	\$9,166.67	\$7,333.33	\$6,111.11
04/10/2005	\$17,500.00	\$11,666.67	\$8,750.00	\$7,000.00	\$5,833.33
05/10/2005	\$16,666.67	\$11,111.11	\$8,333.33	\$6,666.67	\$5,555.56
06/10/2005	\$15,833.33	\$10,555.56	\$7,916.67	\$6,333.33	\$5,277.78
07/10/2005	\$15,000.00	\$10,000.00	\$7,500.00	\$6,000.00	\$5,000.00
08/10/2005	\$14,166.67	\$9,444.44	\$7,083.33	\$5,666.67	\$4,722.22
09/10/2005	\$13,333.33	\$8,888.89	\$6,666.67	\$5,333.33	\$4,444.44
10/10/2005	\$12,500.00	\$8,333.33	\$6,250.00	\$5,000.00	\$4,166.67
11/10/2005	\$11,666.67	\$7,777.78	\$5,833.33	\$4,666.67	\$3,888.89
12/10/2005	\$10,833.33	\$7,222.22	\$5,416.67	\$4,333.33	\$3,611.11
01/10/2006	\$10,000.00	\$6,666.67	\$5,000.00	\$4,000.00	\$3,333.33
02/10/2006	\$9,166.67	\$6,111.11	\$4,583.33	\$3,666.67	\$3,055.56
03/10/2006	\$8,333.33	\$5,555.56	\$4,166.67	\$3,333.33	\$2,777.78
04/10/2006	\$7,500.00	\$5,000.00	\$3,750.00	\$3,000.00	\$2,500.00
05/10/2006	\$6,666.67	\$4,444.44	\$3,333.33	\$2,666.67	\$2,222.22
06/10/2006	\$5,833.33	\$3,888.89	\$2,916.67	\$2,333.33	\$1,944.44
07/10/2006	\$5,000.00	\$3,333.33	\$2,500.00	\$2,000.00	\$1,666.67
08/10/2006	\$4,166.67	\$2,777.78	\$2,083.33	\$1,666.67	\$1,388.89
09/10/2006	\$3,333.33	\$2,222.22	\$1,666.67	\$1,333.33	\$1,111.11
10/10/2006	\$2,500.00	\$1,666.67	\$1,250.00	\$1,000.00	\$833.33
11/10/2006	\$1,666.67	\$1,111.11	\$833.33	\$666.67	\$555.56
12/10/2006	\$833.33	\$555.56	\$416.67	\$333.33	\$277.78
01/10/2007	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

PTT REPORT BY BASE STATION

COMPANY A

PCN Date: 03/07/1997

Base Station Location

Latitude	Longitude	Blocks	Link	MTA/BTA	MTA/BTA	Block(s)
35-03-08	118-10-23	B	WNEN870 / WNEN856	2/ 28	2/ 28	DB/DB
			KMS64 / KCW68	2/ 28	2/ 28	B/C
			WAW956 / KDA26	2/ 28	2/ 28	BE/AD

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

PTT REPORT BY LINK

COMPANY A

PCN Date: 03/07/1997

Link	Block(s)	MTA/BTA	MTA/BTA	Base Station Location		
				Latitude	Longitude	Blocks
KMS64 / KCW68	B/C	2/ 28	2/ 28	35-03-08	118-10-23	B
WAW956 / KDA26	BE/AD	2/ 28	2/ 28	35-03-08	118-10-23	B
WNEN870 / WNEN856	DB/DB	2/ 28	2/ 28	35-03-08	118-10-23	B

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

COST-SHARING OBLIGATION REPORT

Submitted By: **COMPANY A**

PCN Date: **01/29/1997**

Link	Block(s)	MTA/BTA	MTA/BTA	Prior Relocator	Obligation Amount	Previously Reported
WAW956/KDA26	B,E,A,D,	2/28	2/28	COMPANY C	\$98,333.33	

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

CUMULATIVE REPORT OF COST-SHARING OBLIGATIONS

COMPANY A

As Of: 01/29/1997

COMPANY C

\$98,333.33

Total Obligation:

\$98,333.33

INDUSTRIAL TELECOMMUNICATONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

SUMMARY REPORT OF COST-SHARING OBLIGATIONS

COMPANY A

PCN Date: 01/29/1997

Prior Relocator

Obligation Amount

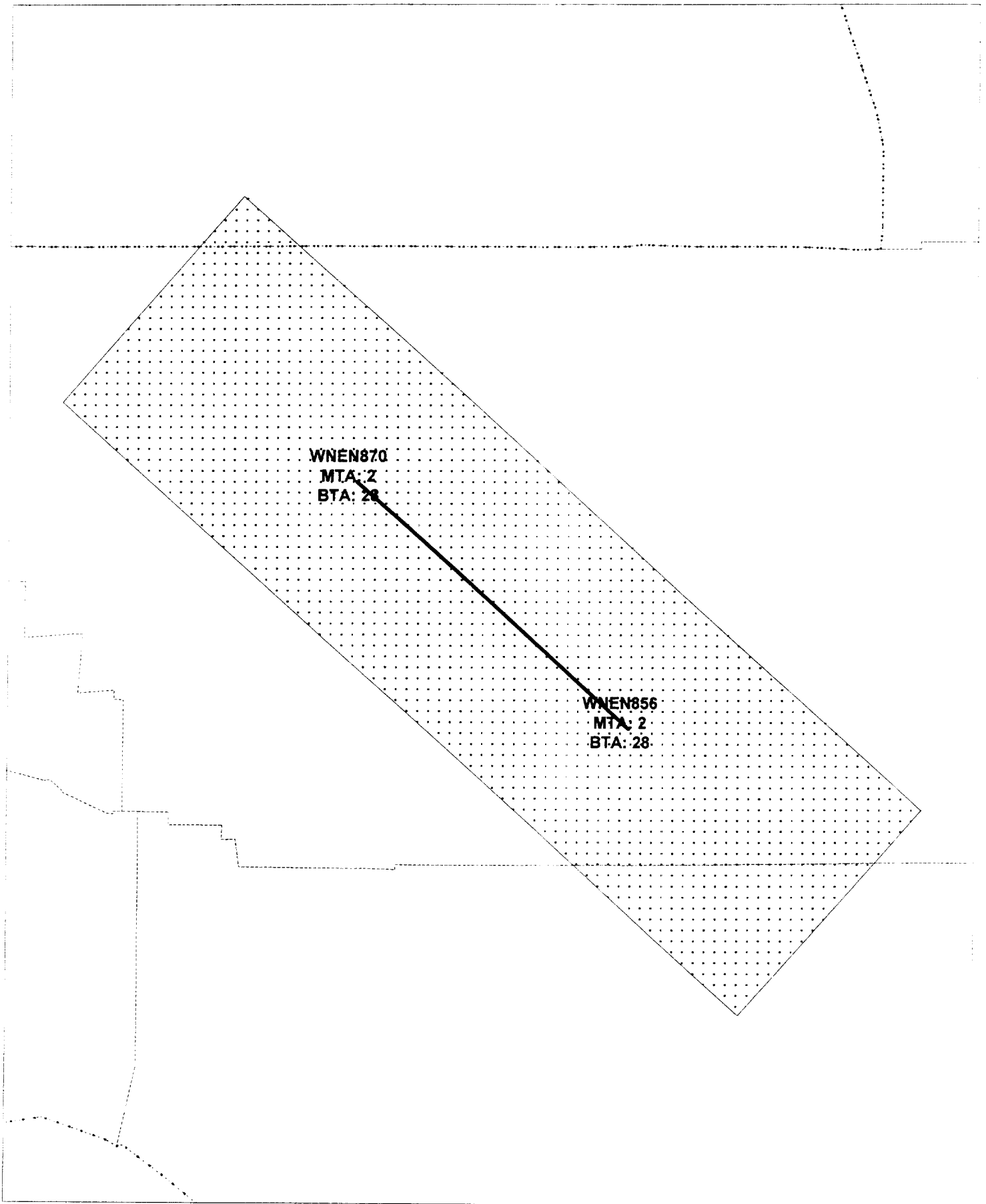
COMPANY C

\$98,333.33

Total Obligation:

\$98,333.33

PTT Rectangle Map
Path : WNEN870 - WNEN856



INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC
CLEARINGHOUSE DIVISION (CHD)

Printed on: 1/14/97

Page 2

PROXIMITY THRESHOLD EVALUATION RECTANGLE REPORT

Microwave Path

Callsign	Latitude	Longitude	Transmit (MHz)		A	B	Co-Channel PCS			
			Frequency	Bandwidth			C	D	E	F
WNTH864	38.6997	90.2231	0.00	5						
WHI972	38.6294	90.1986	1,865.00	10	X			X		
Combined										

Proximity Threshold Rectangle

Corner	Latitude	Longitude
NW	39.0601	-90.6382
SW	38.1549	-90.3200
NE	39.1742	-90.0999
SE	38.2676	-89.7881

Intersecting Markets

MTAs	BTAs
19	394

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

MICROWAVE LINK TRANSACTION REPORT

BY LINK

COMPANY A

Link	PCN Date	Relocator(s)	Agmt. Date	Decom. Date	Obligation Amount
WAW956/KDA26	03/07/1997	COMPANY A	03/07/1997		\$98,333.33
	03/07/1997	COMPANY B	03/07/1997		\$65,555.56
	03/07/1997	COMPANY B	03/07/1997		\$65,555.56

INDUSTRIAL TELECOMMUNICATIONS ASSOCIATION, INC

Printed on: 01/29/1997

CLEARINGHOUSE DIVISION (CHD)

Page: 1

MICROWAVE LINK TRANSACTION REPORT

BY MARKET

COMPANY A

MTA/BTA 2/28

Link	PCN Date	Relocator(s)	Agmt. Date	Decom. Date	Original Reloc. Cost	Obligation Amount
WAW956 / KDA26	03/07/1997	COMPANY A	01/10/1997		\$200,000.00	\$98,333.33
	03/07/1997	COMPANY B	01/10/1997		\$200,000.00	\$65,555.56